

INTEROFFICE MEMORANDUM

DATE:

April 14, 2004

TO:

V. Pizzuto

FROM:

H. Linsinbigler

SUBJECT:

Memo of Understanding for the Demolition of B707/776/777/778 and Associated

Buildings

The Paul White "Acceptance of KHC Proposal for B707/776/777 Demolition" email dated February 2. 2004 provides the authorization for KHC to proceed with the preparation and demolition of the stated structures.

The authorization is for Option #1 of the Cost/Schedule proposal submitted to Tom Dieter on January 29, 2004. Option #1 includes:

Work Schedule

2 Shifts X 12 Hrs X 5 Davs

Demolition Sequence

Ancillary Buildings/B778=>B707=>B776/777 Demolitions will

overlap

Scheduled Start Date

Preparation work to begin in FY04 with demolition to begin October

1, 2004. Early demolition of ancillary structures may be performed

prior to October 1, 2004 at the client's direction.

Scheduled End Date

March 9, 2005 - Date is based upon 100 percent availability of the

work site with no delays.

Estimated Cost

\$8,432,769 – Cost is based upon vendor quotes at the time the

estimate was developed. Vendor prices may vary upon final

negotiated contracts.

The schedule and cost estimates were developed without the inclusion of contingencies, at the request of Tom Dieter. The project cost and schedule will be reviewed monthly to calculate the forecast actual cost and completion date. The B707/776/777 Project Manager has the right to modify the scope and conditions of this demolition project at any time.

Concurrence:

Harry Linsinbigler

Attachments (3

Victor Pizzuto

ADMIN RECORD

From:

Linsinbigler, Harry

Sent:

Monday, February 02, 2004 7:36 AM

To:

Hill, Michael D.

Cc:

Wren, Victoria; Flannery, Mike; Choinacki, David

Subject:

FW: Acceptance of KHC Proposal for B707/776/777 Demolition

Harry Linsinbigler Kaiser Hill Construction Group Manager Rocky Flats Environmental Technology Site

----Original Message----

Firom: White; Paul

Sent:

Monday, February 02, 2004 7:31 AM

To:

Ferrera, Denny; Gibbs, Frank; Linsinbigler, Harry

Cc:

Dieter, Thomas; Brown, Maurice; Pizzuto, Victor; Kerridge, Jeffrey; Druckman, Howard; Kury, Robert; Henderson, Brian; Lee, Christopher; Foss, Dyan; Robben,

Karen

Subject:

Acceptance of KHC Proposal for B707/776/777 Demolition

Tom Dieter and Company have accepted the Kaiser-Hill Construction proposal for the demolition of B707/776/777. In the near future, will be forwarding you a scope statement, organizational chart with management/oversight responsibilities and initiate more substantial communication for planning.

As stated in the proposal, KHC will provide operators, equipment and ground support during demolition operations. B707/776/777 personnel will be responsible for health and safety, rad ops, environmental, inter-project coordination with Material Stewardship and general oversight.

If you have any further questions, please contact Tom Dieter at x5729.

Paul J. White B707/776/777 Project Controls x 9842, Fax 2414

Pager: 303-212-2295

707/776/777 Area Estimate

January 29, 2003

All work performed under this proposal will be accomplished in accordance with RFETS site standard policies and procedures. Estimate is based on the established Kaiser-Hill Demolition Team knowledge and experience for this type of facility with special considerations for dealing with radiological hazards.

SCOPE

The scope of this proposal includes demolition of the following buildings in the 700 complex.

Building 701

Demolition and waste load-out of building structure, slab and foundations to four feet (4') below grade.

Building 702

Demolition and load-out of only the building slab and foundations to four feet (4') below grade.

Building 703

Demolition and load-out of only the building slab and foundations to four feet (4') below grade.

Building 707

Demolition and load-out of building structure, including any and all mechanical and electrical components and equipment left within, slab, foundations, grade beams and footings.

Building 707S

Demolition and load-out of building structure.

Building 708

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade.

Building 709

Demolition and load-out of cooling tower slab and foundations to four feet (4') below grade.

Building 710

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade.

Building 711

Demolition and load-out of cooling tower slab and foundation to four feet (4') below grade.

Building 711A

Demolition and load-out of slab and foundation to four feet (4') below grade.

Building 712

Demolition and load-out of cooling tower slab and foundation only to four feet (4') below grade.

Building 713

Demolition and load-out of cooling tower slab and foundation only to four feet (4') below grade.

Building 713A

Demolition and load-out of valve pit to four feet (4') below grade.

Building 718

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade.

Building 730

Demolition and load-out of building structure and pit to 4' below grade.

Building 731

Demolition and load-out of building structure and pit to 4' below grade.

Building 732

Demolition and load-out of building structure and pit to 4' below grade.

Building 776/777

Demolition and load-out of building structure, including any and all mechanical and electrical components and equipment left within, slab, pits, basement, foundation and footings. All concrete will be completely removed.

Building 778

Demolition and load-out of building structure, slab and foundation to four feet (4') below grade.

Building 781

Demolition and load-out of helium compressor pit to four feet (4') below grade.

Retaining Wall

Demolition and load-out of retaining wall between B777 and 779 slab.

Process Waste Line

Removal and load-out of process waste line, approximately fifty feet (50'), which runs from B776 to Valve Vault 9.

ASSUMPTIONS

All Buildings

- 1. 707/776/777 Project will be responsible for interfacing (i.e. notification, approvals, and correspondence) with RFETS departments and outside agencies.
- 2. All sanitary waste will be hauled out using end dump trucks. 707/776/777 Project will be responsible for arrangements with Material Stewardship to provide 24-hour support if needed.
- 3. This estimate does not include final grading or removal of any mechanical or electrical components below four feet (4').
- 4. An allowance has been included in this estimate to cover supplies and consumables needed for the demolition of this project.
- 5. Temporary lighting has been included in this estimate. KH
 Demolition will subcontract with Gash Electric to set-up and
 maintain lighting. Estimate is based on utilization of existing onsite
 power.
- 6. Installation of silt fence and straw bales has been included in the estimate. Plans for placement of the silt fence and straw bales will be provided by 707/776/777 Project.
- 7. 707/776/777 Project will provide fogging equipment, while the cost of fixative and general dust control measures (water spraying) is included in this estimate.
- 8. The 21 storage tanks are not included in this estimate, due to the unknown locations at the time of estimate preparation.

- 9. 707/776/777 Project is responsible for providing the following support personnel and associated equipment: Health & Safety, Industrial Hygiene, RCT's, Radiological Engineering, Waste Personnel, CCA and Engineering Support.
- 10. There have been no allowances made for any delays due to inclement weather.
- 11. Training is based on RFETS Site Standards; no special training is included (e.g. 40 Hr. Haz. Waste Ops.)
- 12. 707/776/777 Project will be responsible for the blocking/sealing of the tunnel to Building 771 at the 776 end before the start of demolition.
- 13. The removal of miscellaneous items and pads within 20' of building footprints has been included in this estimate.
- 14. An allowance has been included to cover maintenance and repair costs of all KH Demolition equipment.
- 15. KH Demolition Team will set up a local heavy equipment fueling station. 707/776/777 Project will be responsible for obtaining all approvals (e.g. Site SAR, Fire Dept., etc.) necessary to operate and fill the fueling station. The station will utilize the existing above ground tank from Building 708. Estimated fuel usage is 1200 gallons per shift.
- 16. A construction boundary will be maintained with the project Rad RBA boundary as a minimum. Entrance/exit locations will be established with input from Radiological Operations.
- 17. All maintenance of equipment will be scheduled for Saturdays to lessen the impact to the project.

Building 707

- 1. This estimate is based on the assumption that modules J and K are radiologically uncontaminated (i.e. sanitary waste).
- 2. Demolition and load-out of grade beams and foundations from Building 707 is not included in this estimate based on the final grading plan.

Building 776/777

- 1. 707/776/777 Project will be responsible for the disposal of all equipment fluids (e.g., oils, hydraulic fluids, greases, etc.), and filters (including HEPA, fuel, oil, air filters, etc.).
- 2. The lead (Pb) collar located in Room 443 will be removed with an excavator using a picking eye so as to minimize any damage to the collar.
- 3. There is no TRU waste removal included in this estimate.
- 4. 707/776/777 Project will supply LLW containers as required for load-out, including maintenance, repairs and linings. The number

of containers required will be based on experience and review of past projects.

5. This estimate includes the complete removal of all pits, vaults and the basement.

- 6. There are no allowances made in this estimate to cover the cost of sampling, pumping or collection of incidental waters in exposed pits.
- The removal of non-contaminated gravel under the 776/777 building is included in this estimate. UBC contaminated gravel and soil will be dispositioned by ER.
- 8. 707/776/777 will provide all clothing, respirators, lockers and shower facilities needed for the demolition and load-out of 776/777 activities. 707/776/777 will also be responsible for the waste disposal of the items above.
- 9. The single shift option will increase the amount and cost of fixative application for unattended demolition piles. This adds at least six (6) more applications per week.
- 10. The removal of the OPWL from Building 776 to Valve Vault 9 is included in the 776/777 demolition activities.
- 11. The removal and load-out of the east retaining wall and Building 781 is included in the 776/777 demolition activities.
- 12. The heavy equipment will be set up with HEPA filtration for 776/777 activities, and the operators will be permitted to wear half face respirators while in the cab of the equipment.
- 13. The estimate includes one attempt to decontaminate all equipment. However, if unsuccessful, plans will be made to relocate radiologically contaminated heavy equipment to another DOE facility or ship out as LLW. Cost has been included in this estimate for the size reduction of equipment to be sent out as LLW.

PERSONNEL

Supervision per shift:

Superintendent (2)

Field Engineer (1)

Craft Labor per shift:

Laborers (12)

Operators (10)

EQUIPMENT

Purchase

EX450 Excavator with 700XP Shear (2)	\$831,346.00
EX450 Excavator with RB42 Pulverizer (1)	\$352,573.00
ZX800 Excavator with RB42 Pulverizer (1)	\$651,900.00
EX330 Excavator with Bucket/Thumb (2)	\$360,000.00
Volvo L150E Loader, 6 yard (2)	\$345,000.00
G90 Hammer Head (1)	\$84,400.00

Rental Rate Per Month

EX450 Excavator with 700XP Shear (2)	\$56,010.00
EX450 Excavator with RB42 Pulverizer (1)	\$24,095.00
ZX800 Excavator with RB42 Pulverizer (1)	\$35,000.00
EX330 Excavator with Bucket/Thumb (2)	\$22,370.00
Volvo L150E Loader, 6 yard (2)	\$20,856.00
G90 Hammer Head (1)	\$10,027.00

PRICING OPTIONS – in recommended order

(See attached pricing schedules for detail)

2 Shifts X 12 Hrs X 5 Days - 707/776/777 (End Date: 3/9/05) #1 \$8,432,769.00 2 Shifts X 12 Hrs X 5 Days - 776/777/707 (End Date: 3/2/05) #2 \$8,806,793.00 2 Shifts X 12 Hrs X 4 Days - 707/776/777 (End Date: 4/14/05) #3 \$8,629,539.00 2 Shifts X 12 Hrs X 4 Days - 776/777/707 (End Date: 4/6/05) #4 \$8,986,733.00 1 Shift X 10 Hrs X 6 Days - 707/776/777 (End Date: 6/4/05) #5 \$7,776,669.00 1 Shift X 10 Hrs X 6 Days - 776/777/707 (End Date: 5/25/05) #6 \$8,436,793.00

B707 GRADE BEAM/ FOUNDATION OPTION

4 day Schedule – Double Shift – Labor Cost Only \$616,000.00

5 day Schedule – Double Shift – Labor Cost Only \$657,800.00

*SUPERVISION COST NOT INCLUDED. **EQUIPMENT COST NOT INCLUDED.

Pricing Option #1 2 X 12 X 5 Day 707/776/777 End Date: 3/9/05

Up (Training) Mon-Thurs 16 Day 44 40 4 cation Cation Bidgs Mon-Thurs 32 Day 22 52 8.00 Clean Bidgs Mon-Thurs 32 Day 22 52 8.00 Fri 9 Day 22 18 9.00 Fri 9 Day 22 14 9.00 Amon-Fri 14 Day 22 14 Ision Mon-Fri 114 Day 22 14 Ision Mon-Fri 114 Day 22 14 Ision Mon-Fri 114 Day 3 60 22.8 Inent Buyout Mon-Fri 114 Night 3 60 22.8 Actuilment/Hydro Cauly Mince Shed 2 2 14 2 Equipment/Hydro Cauly Mince Shed Cauly M	Item	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate		Total
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	Total								& \$	8,432,769.00

Pricing Option #22 × 12 × 5 Day 776/777/707 End Date: 3/2/03

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Mon-Thurs 16 Day 44 40 4 50.00										
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	Demobilization								\$	320,000.00
	Total								8 \$	8,806,793.00

Pricing Option #3 2 X 12 X 4 Day 707/776/777 End Date: 4/14/05

ltem	Days of Week	# of Days	Shift	Shift Craft/Admin	Hrs/wk	Weeks	Labor Rate	_	Total
Ramp Up (Training)									
	Mon-Thurs	16	Day	44	40	4	50.00	S	352,000.00
				u					
Mobilization								9	150,000.00
Labor - Clean Bldgs									
	Mon-Thurs	38	Day	22	52	9.50	20.00	ક્ક	543,400.00
	Mon-Thurs	38	Night	22	09	9.50	20.00	69	627,000.00
Labor - 776/777									
	Mon-Thurs	74	Day	22	52	18.5	25.00	မှ	1,164,020.00
	Mon-Thurs	74	Night	22	09	18.5	55.00	s	1,343,100.00
Sunarvision									
	Mon-Thurs	112	Day	8	48	28	75.00	S	302,400.00
	Mon-Thurs	112	Night	3	48	28	75.00	es l	302,400.00
Equipment Buyout								69	2.625.219.00
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Material/Repairs/Mtnce								8	750,000.00
776/777 Only Minge Shed						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		U .	50 000 00
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Decon Equipment/Hydro								8	100,000.00
Demobilization								ક્ક	320,000.00
-			-						
Total								\$	8,629,539.00

Pricing Option #4 2 X 12 X 4 Days 776/777/707 End Date: 4/6/05

ltem	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate		Total
Ramp Up (Training)									
	Mon-Thurs	16	Day	44	40	4	20.00	8	352,000.00
Mobilization								es	150,000.00
Labor - 776/777									
	Mon-Thurs	73	Day	.22	52	18.25	55.00	s	1,148,290.00
	Mon-Thurs	73	Night	22	09	18.25	25.00	မှ	1,324,950.00
Labor - Clean Bidgs								_	
	Mon-Thurs	35	Day	22	52	8.75	50.00	S	500,500.00
	Mon-Thurs	35	Night	22	09	8.75	20.00	ક્ક	577,500.00
Supervision	Mon-Thurs	108	Dav	3	48	27	75.00	မ	291,600.00
	Mon-Thurs	108	Night	3	48	27	75.00	ક્ક	291,600.00
Equipment Buyout								S	2,625,219.00
Equipment Lease (3 month)							-	8	505,074.00
Material/Repairs/Mtnce								s	750,000.00
776/777 Only Mtnce Shed								€9	50,000.00
Decon Equipment/Hydro								8	100,000.00
Demobilization	-							49	320,000.00
	,								
Total								\$ 8	8,986,733.00

Pricing Option #5 1 X 10 X 6 Days 707/776/777 End Date: 6/4/05

ltem	Days of Week	# of Days	Shift	Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	22	40	4	20.00	\$176,000.00
Mobilization								\$150,000.00
Labor - Clean Bldgs	Mon Thurs	36	100	000	5	000	00 09	00 000 9053
	Fri-Sat	20	Day	22		10.00	50.00	\$330,000.00
Labor - 776/777			•					
	Mon-Thurs	91	Day	22	40	22.75	55.00	\$1,101,100.00
	Fri-Sat	44	Day	22	30	22	22.00	\$798,600.00
Supervision				and the second s				
	Mon-Sat	191	Day	က	09	31.83	75.00	\$429,750.00
Equipment Buyout								\$2,625,219.00
Material/Repairs/Mtnce								\$1,300,000.00
776/777 Only Mtnce Shed								\$50,000.00
Decon Equipment/Hydro								\$100,000.00
Demobilization								\$320,000.00
Total								\$7,776,669.00

Pricing Option #6

702/22/92	End Date: 5/25/05

ltem	Days of Week	# of Days	L_	Shift Craft/Admin	Hrs/wk	Weeks	Labor Rate	Total
Ramp Up (Training)								
	Mon-Thurs	16	Day	22	40	4	20.00	\$176,000.00
Mobilization					-			\$150,000.00
Labor - // 6///	Mon-Thurs	06	Dav	. 22	40	22.50	55.00	\$1,089,000.00
	Fri-Sat	45	Day	22	30	22.50	55.00	\$816,750.00
Labor - Clean Bldgs								
	Mon-Thurs	43	Day	22	40	10.75	20.00	\$473,000.00
	Fri-Sat	23	Day	22	30	11.5	20.00	\$379,500.00
Supervision								
	Mon-Sat	201	Day	က	09	33.50	75.00	\$452,250.00
Equipment Buyout								\$2,625,219.00
Equipment Lease (3 month)								\$505,074.00
Material/Repairs/Mtnce								\$1,300,000.00
776/777 Only Mtnce Shed								\$50,000.00
Decon Equipment/Hydro								\$100,000.00
Demobilization								\$320,000.00
Total	•							\$8,436,793.00

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	Start Date Finish Date Data Date Run Date	,	3F01153	3F01103	3F01053	3F01003	3F00953	3F00903	3F00853	3F00803	3F00753	3F00553	3F00503	3F00703	776 - Mfg & Ut 3F00653	3F00453	3F00403	3F00353	3F00603	3F00303	3F00253	3F00203	3F00153	707 - Plutoniu 3F00103	3F00053	3 <u>707=,B778=>B776/77</u> Non-Building Specific	Activity ID
© Primavera Systems, Inc.			B778 Rough Grd	B778 Loadout of Slab/Fndn	B778 Demolition of Slab/Fndn	B778 Loadout of Structure	9F00953 B778 Demolition of Structure	B776 Loadout of Fnds/Figs	B776 Demolition of Fndns/Ftgs	B776 Loadout of Slab/Pits	B776 Demolition of Slab/Pits	B776 Loadout of Structure	B776 Demolition of Structure	B701/710 Demo/Loadout	776 - Mfg & Utilities LL & TRU Solid 9F00653 B702/703/712/713/713A Demo/Ldout	B707 Loadout of Grd Bms/Fndns (Delete)	B707 Demolition of Grd Brns/Fndsn (Delete)	B707 Loadout of Slab	Pits 730/731/732 Demo/Loadout	B707 Demolition of Slab	B707 Loadout of Structure	B707 Demolition of Structure	B711/711A/718 Shed Demo/Loadout	707 - Plutonium Ops Manufacturing 3F00103 B709/708/707Shed Demo/Loadout	Ramp Up	B707≒_B778=>B776/777 2x12hrsx5day Shift Non-Building Specific	Activity Description
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			T04 18OCT04	150CT04	T04 12OCT04	104 07OCT04	04OCT04	905 09MAR05	04MAR05	11FEB05	05 04FEB05	28JAN05	V04 18JAN05	V04 19NOV04	704 27OCT04	01DEC04	24NOV04	704 30NOV04	/04 24NOV04	/04 24NOV04	T04 19NOV04	104 01NOV04	05OCT04	704 110CT04	04* 30SEP04		Early Early Start Finish
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	B707/77 B707 Fnd														Demo(1)-SizeRed(4)-Bckfill(4)-RoughGrd(1)-					←	-		SlabFndn(2)-	Demo(3)Ldout(5)-SizeReduce Slab(2)-LdoutSlab(2) Bokfill(1)Grd(1)			8 NO
	B707/776/777 Demolition B707 Fndn/Grd Bms Delete					• • • • · · · · · ·					·		-	Demo(1)-Size/L Grd(1) ▼	4)-RoughGrd(1)-		•	→	8 ea					9			22 29
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